

**To:** Schmittiel, Paula[Schmittiel.Paula@epa.gov]  
**From:** Ketellapper, Victor  
**Sent:** Mon 4/7/2014 4:53:25 PM  
**Subject:** FW: USGS Data on the Upper Animas Site

Below are the links I sent to the team on the USGS reports on the Upper Animas including the AVERIS data (imaging spectroscopy)

Victor

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**From:** Ketellapper, Victor  
**Sent:** Monday, March 24, 2014 11:41 AM  
**To:** Schmittiel, Paula; Wharton, Steve; Wall, Dan; Linn, Peggy; Williams, Laura; Way, Steven; Miller, Johanna; Forrest, Sabrina; Rudy, Michael; Land, Kelcey; Urdiales, Aaron; Madigan, Andrea; Sisk, Richard  
**Cc:** Faulk, Libby; Ostrander, David; Russell, Carol  
**Subject:** USGS Data on the Upper Animas Site

During the last team meeting, I agreed to provide the team information on the USGS work conducted in the Upper Animas and data demonstrating mine waste was used in road construction within Silverton.

The USGS has published many reports on the Upper Animas Mining district discussing a broad range of topics including mining operations, geology, ecological impacts, and water quality. The reports are found in USGS Professional Paper 1651 and are online at: [http://pubs.usgs.gov/pp/1651/](http://pubs.usgs.gov/pp/http://pubs.usgs.gov/pp/1651/)

Report E2 ( [http://pubs.usgs.gov/pp/1651/downloads/Vol1\\_combinedChapters/vol1\\_chapE2.http://pubs.usgs.gov/pp/1651/downloads/Vol1\\_combinedChapters/vol1\\_chapE2.pdf](http://pubs.usgs.gov/pp/1651/downloads/Vol1_combinedChapters/vol1_chapE2.http://pubs.usgs.gov/pp/1651/downloads/Vol1_combinedChapters/vol1_chapE2.pdf) ) includes the imaging spectroscopy of the mining district in town. The results show mine waste was used in town for the roads.

Victor

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